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Key Features

Real-time H-Star technology for decimeter to subfoot accuracy in the field

High-resolution VGA display for crisp and clear map viewing

Bluetooth and wireless LAN connectivity options

1 GB onboard storage plus SD slot for removable cards

Windows Mobile version 6.1 operating system

Rugged handheld with all-day battery



the PerFect Solution For hiGh-accuracy aSSet manaGement

For high-accuracy GIS data collection and asset relocation, the Trimble® GeoXH™ handheld is the perfect integrated solution. Engineered with Trimble H-Star™ technology, the GeoXH handheld delivers decimeter (10 cm / 4 inch) to subfoot (<30 cm) accuracy when you need it, making it the ideal device for electric and gas utilities, water and wastewater services, land reform projects, and other applications where on-the-spot positioning is crucial.

The GeoExplorer® 3000 series combines a Trimble GPS receiver with a rugged handheld computer, built for all-day use and packed with connectivity options. Technology this clever has never been more convenient.

Subfoot accuracy when you need it

When your GIS database requires the highest levels of accuracy, the GeoXH handheld is the answer. Using revolutionary Trimble H-Star technology, the GeoXH handheld delivers real-time subfoot accuracy with the internal antenna, and decimeter accuracy with an optional Trimble Tornado™ external antenna. Back-office data processing is eliminated, streamlining asset inventories and as-built mapping jobs.

Need to relocate assets in the field? The GeoXH handheld has you covered. Buried and hidden assets can be tracked down with ease, as the real-time high accuracy gets you straight to the point. Cables and pipes can be excavated without wasted effort or risk of damage to nearby assets. When you postprocess with Trimble office software you can be confident of achieving decimeter level accuracy with greater consistency at longer baselines, in tougher environments, and with shorter occupations.

Packed full of power

With a powerful 520 MHz processor, 128 MB RAM, and 1 GB of onboard storage, the GeoXH handheld is a high performance device designed to work as hard as you do. The handheld gives you all the power you need to work with maps and large data sets in the field, and its high resolution VGA display allows for crisp and clear viewing of your data.

The GeoXH handheld is powered by the industry-standard Windows Mobile® version 6.1 operating system so you can choose a

software solution designed for your field requirements, whether off-the-shelf or purpose-built.

The Windows Mobile 6.1 operating system includes familiar Microsoft® software, including Word Mobile, Excel Mobile, and Outlook® Mobile, giving you all the tools you need for a seamless exchange of data between the field and the office.

Get the data you need, when you need it

With the GeoXH handheld you have the flexibility to work exactly the way you want to. Use the built-in wireless LAN connection to access your organization's secure network and get the most up-to-date information. You can also wirelessly connect to other devices such as Bluetooth®-enabled laser rangefinders and barcode scanners for convenient cable-free solutions that keep you productive in the field. Cellular connectivity can be added to the GeoXH handheld via the TDL 3G cellular modem. Connecting via wireless LAN or Bluetooth, the TDL 3G provides continuous network/internet access to real-time map data, web-based services, Trimble VRS corrections, and live update of field information.

Built for the field

The GeoXH handheld has an integrated battery, good for a full day's work; simply charge the battery overnight and you're ready to go again. The GeoXH handheld will last the distance, and its rugged design can take a lot of punishment. Rain, hail or shine, it's built to keep working, whatever the weather throws at you.

When accuracy is critical

Rugged design and powerful functionality are the hallmarks of the GeoExplorer series. And now with H-Star technology providing decimeter to subfoot accuracy in real time, the 3000 series GeoXH handheld is your ultimate solution for high-accuracy asset management.

When accuracy is critical, the GeoXH handheld delivers—with unprecedented efficiency and reliability, when and where you need it.

GEOEXPLORER 3000 SERIES GEOXH HANDHELD

Standard Features

System

• Windows	Mobile	6.1	(Classic	edition)	
• VGA	display	(480	x	640),	sunlight-readable
• Integrated	Bluetooth	1.2	wireless	technology	
• Integrated	802.11b/g	wireless	LAN		
• Ergonomic	cable-free	handheld			
• Rugged	and	water-resistant	design		
• All-day	internally	rechargeable	Li-ion	battery	
• Marvell	520	MHz	XScale	processor	
• 128	MB	RAM			
• 1	GB	non-volatile	Flash	data	storage
• Sealed	SD/SDHC	card	slot		
• Integrated	speaker	and	microphone		

GPS

• Integrated	high-performance	1 receiver	SBAS	antenna	
• H-Star	technology	for	subfoot	(<30	cm)
• (10 cm / 4	inch) accuracy	after	postprocessing		
• Decimeter	accuracy	is	also	available	in
• Tornado	antenna				
• RTCM	and	CMR	real-time	correction	support
• TSIP ²	protocol	support	NMEA		
• Trimble	™	multi-projector	technology		

Standard Software

• GPS	Controller	for	control	of	integrated
• GPS	Connector	for	connecting	integrated	GPS
• Microsoft	Office	Mobile			
• Transcriber	(handwriting	recognition)			

Standard accessories

• Support	module				
• AC	Power	supply	with	International	adapter
• USB	data	cable			
• Stylus	(x	2)			
• Screen	protectors	(2-pack)			
• Quick	Start	Guide			
• Getting	Started	CD			
• Hand	strap				
• Pouch					

Optional Features

optional Software

• Trimble	™	TerraSync			
• Trimble	™	ESRI ArcPad	software		
• Trimble	™	GPS Tools Software	Development Kit (SDK)		
• Trimble	™	Pathfinder	Office	software	
• Trimble	™	Extension for ArcGIS	Desktop software		
• Trimble	™	Pro System			

optional accessories

• TDL	3G	cellular	modem	accessory	
• Power/serial	clip	(9-pin	RS-232	serial	connector)
• Vehicle	power	adaptor			
• Null	modem	cable			
• Backpack	kit				
• Hard	carry	case			
• Tornado	antenna				
• 2	meter	range	pole		
• Range	pole	bracket			
• Trimble	™	GeoBeacon			
• Anti-glare	screen	protectors	(2-pack)		

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technical Specifications

Physical

Size	21.5	cm	x	9.9	cm	x	2.5	cm
Weight	0.81	kg	(1.79	lbs)				
Processor	520	MHz	Marvell	PXA-270		XScale		
Memory	128	MB	RAM	and	1	GB	internal	Flash storage
Battery	7500	mAh	Internal					lithium-ion
Power usage	27.8	Watt-hours	rechargeable					
Low (no GPS or backlight)	1.8	Watts						
Normal (with GPS and backlight*)	3.2	Watts						
High (with GPS, backlight ⁴ , Bluetooth, and wireless LAN) ⁵	4.3	Watts						

environmental

Operating temperature	-20	°C	to	+60	°C	(-4	°F	to	140	°F)
Storage temperature	-30	°C	to	+70	°C					
Casing	Dust-proof	and	resistant	to	heavy	wind-driven	rain	per	IP	65
Drop	1.2	m	(4	ft)	MIL-STD-810F,	Method	516.5,	Procedure	IV	

Input/output

Expansion	SD	card	slot	(SD	or	SDHC	storage	cards)	
Display	8.9	cm	(3.5	in)	VGA	(480	x	480)	
Interface	Touch	screen,	10	hardware	control	keys,	power	status	LED
Audio	external	ports	Microphone	and	speaker,	recording	and	playback	utilities
I/O	Serial	via	optional	9-pin	RS-232				power/serial
Bluetooth	1.2,	Wireless	LAN	802.11b/g					

GPS

Channels	26	(12	L1	code	and	carrier,	12	L2	carrier,	2	SBAS)
Integrated real-time	SBAS ¹	(dual-channel	tracking)								
Update rate	1	Hz									
Time to first fix	30	seconds	(typical)								
Protocols	TSIP,	NMEA-0183	v3.0	(GGA,	VTG,	GLL,	GSA,	ZDA,	GSV,	RMC)	
Real-time corrections	RTCM	2.x,	RTCM	3.0,	CMR,	CMR+					

accuracy (hrmS) ⁷ after differential correction

Real-time positioning	
H-Star ⁸ with internal antenna (within a VRS network, or <80 km)	Subfoot (<30 cm)
H-Star ⁸ with optional Tornado antenna	
Short baseline (within a VRS network, or <30 km)	10 cm
Long baseline (30-80 km)	Subfoot (<30 cm)
Code corrections (SBAS ¹ or external correction source)	Submeter
Postprocessed positioning	
H-Star horizontal accuracy	10 cm + 1 ppm
Carrier postprocessed accuracy with 45 minutes tracking satellites	1 cm + 2 ppm ¹⁰
Code postprocessed	50 cm

- SBAS (Satellite Based Augmentation System). Includes WAAS available in North America only, EAS available in Europe only, and MSAS available in Japan only.
- NMEA output of real-time H-Star corrected data is not supported.
- Power/serial clip also required.
- With backlight at default setting (50% brightness).
- Power draw will vary depending on radio usage.
- Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 3000 series handhelds have Bluetooth and wireless LAN approval in the U.S. and in most European countries. For further information please consult your local reseller.
- Horizontal Root Mean Squared accuracy, 1-sigma (68%). Except in conditions where most GPS signals are affected by trees, or buildings, or other objects. Except when using VRS corrections, accuracy varies with proximity to base station by +1 ppm for code postprocessing and real-time.
- H-Star specified accuracy is typically achieved within 2 minutes. Requires data to be collected using Trimble field software.
- The following factors increase the availability of decimeter (10 cm / 4 inch) accuracy after H-Star postprocessing: longer elapsed time tracking uninterrupted L1/L2 carrier phase data, use of the optional external Tornado antenna, tracking of more satellites with L2 measurements, shorter distance to the base station(s), and use of more (than one) base stations for postprocessing.
- 45 minute carrier capability applies only to the GPS Pathfinder Office software and is limited to 10 km from the base station.

Specifications subject to change without notice.



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